BEST AVAILABLE COPY

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property **Organization**

International Bureau



(43) International Publication Date 2 September 2004 (02.09.2004)

PCT

(10) International Publication Number WO 2004/074622 A3

- (51) International Patent Classification7: 17/02, 29/00
- E21B 19/16,
- (21) International Application Number:

PCT/US2004/004740

- (22) International Filing Date: 17 February 2004 (17.02.2004)
- (25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data: 60/448,526

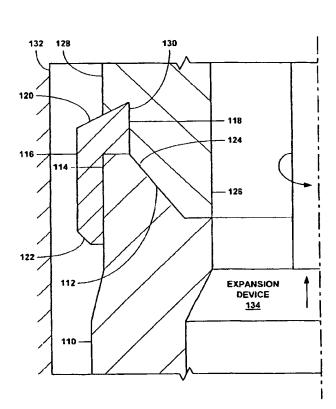
18 February 2003 (18.02.2003) US

- (71) Applicant (for all designated States except US): ENVEN-TURE GLOBAL TECHNOLOGY [US/US]; 16200 A. Park Row, Houston, TX 77084 (US).
- (72) Inventor; and
- (75) Inventor/Applicant (for US only): COSTA, Scott [US/US]; 2011 Willow Point, Kingwood, TX 77330 (US).

- (74) Agent: MATTINGLY, Todd; Haynes and Boone, L.L.P., 901 Main Street, Suite 3100, Dallas, TX 75202 (US).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK,

[Continued on next page]

(54) Title: PROTECTIVE COMPRESSION AND TENSION SLEEVES FOR THREADED CONNECTIONS FOR RADIALLY EXPANDABLE TUBULAR MEMBERS



A radially expandable (57) Abstract: multiple tubular member apparatus includes a first tubular member (110) and a second tubular member (128) engaged with the first tubular member forming a joint. A sleeve (116) overlaps and couples the first and second tubular members at the joint.



BEST AVAILABLE COPY

TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Declaration under Rule 4.17:

- of inventorship (Rule 4.17(iv)) for US only

Published:

with international search report

 before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

(88) Date of publication of the international search report: 31 March 2005

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

BEST AVAILABLE COPY

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/04740

A. CLASSIFICATION OF SUBJECT MATTER				
IPC(7) : E21B 19/16, 17/02, 29/00				
US CL : 166/380, 242.1, 242.6, 206, 207; 285/333, 334, 382.1, 53				
According to International Patent Classification (IPC) or to both national classification and IPC				
B. FIELDS SEARCHED				
Minimum don	amentation searched (classification system followed)	ov classification symbols)		
Minimum documentation searched (classification system followed by classification symbols) U.S.: 166/380, 242.1, 242.6, 206, 207; 285/333, 334, 53, 382.1, 382.4				
0.0.1.10.0.0.0.1.2.0.1.2.0.1.2.0.1.2.0.1.2.0.1.3.0.2.1.				
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched				
Plantagia dan bag gamulad during the insurational court (court of day beyond advanced in the court of the court of day beyond at the court of the co				
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)				
C. DOCUMENTS CONSIDERED TO BE RELEVANT				
Category *	Citation of document, with indication, where ap	propriete of the relevant personal	Relevant to claim No.	
		<u> </u>		
X	US 6,263,968 B1 (FREEMAN et al) 24 July 2001 (2		14, 16, 25, and 27	
	51-64, column 10, line 4 through column 11, line 15.			
Y	1-13, 1			
			28-46, 48, 49, 51-58,	
			66-85	
			İ	
Y	US 4,854,338 A (GRANTHAM) 08 August 1989 (0	8.08.1989), Figs. 3-4, column 6, lines	1-13, 15, 22-24, 26,	
	25-31.		56, 57, 66, 77, and 80	
Y	US 5,031,370 A (JEWETT) 16 July 1991 (16.07.19	Q1) Fig. 8 and claim 11	17-20, 28-31, and 83	
•	00 5,051,570 A (50 WE11) 10 July 1551 (10.07.1551), 11g. 0 and claim 11.			
l I Y	US 4,401,325 A (ISUCHIYA et al) 30 August 1983 (30.08.1983), Figs. 2-4, column 2, 21, 32, , 58, 61, 66-			
	line 52 through column 3, line 2; column 3, line 34 through column 4, line 13.			
			82, 84, and 85	
	V 10.5 001 51.4 (DT) ANGE - N 00 A 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
Y	Y US 5,931,511 A (DELANGE et al) 03 August 1999 (03.08.1999), Figs. 1-1A.		33-44	
Y	Y US 4,917,409 A (RÉEVES) 17 April 1990 (17.04.1990), Figs. 3-6.		53-55, 80, and 83	
1				
Everba	dominants are listed in the continuation of Roy C	Soo notont family appear		
Further documents are listed in the continuation of Box C. See patent family annex.				
Special categories of cited documents:				
"A" documen	t defining the general state of the art which is not considered to	priority date and not in conflict with understand the principle or theory u		
be of particular relevance				
	"X" document of particular relevance; the claimed invention cannot be considered no or patent published on or after the international filling considered novel or cannot be considered to involve an inventive			
"E" earlier a	pplication or patent published on or after the international filing	step when the document is taken alo		
"L" document which may throw doubts on priority claim(s) or which is cited "Y" document of particular relevance; the claimed invention cannot be				
	ish the publication date of another citation or other special reason	considered to involve an inventive a combined with one or more other au		
(as specified) combined with one or more other such documents, such combination being obvious to a person skilled in the art				
"O" document referring to an oral disclosure, use, exhibition or other means				
-P- documen	nt published prior to the international filing date but later than the	"&" document member of the same paten	ı ıamıly	
priority date claimed				
	Date of the actual completion of the international search Date of mailing of the international search report			
·		19 JAN 2005		
	r 2004 (22.12.2004)			
Timbe and manufig address of the fore of		Authorized officer		
	ail Stop PCT, Attn: ISA/US	David Bagnell V Prop. 1.		
Contrassour for Location		, , ,		
P.O. Box 1450 Alexandria, Virginia 22313-1450		Telephone No. 703-308-1113		
	Facsimile No. (703) 305-3230			
1 acanime 110. (100) 300-3250				

Form PCT/ISA/210 (second sheet) (January 2004)